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We claim:

- Dr. A1*
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1. A process for preparing odorant polymers or plastics, in which a comminuted or fine-particle first polymer material is mixed with a desired odorant, allowed to swell for a predetermined period, and, after being allowed to swell with the odorant, is mixed with a second plastic, where the first polymer material differs from the second plastic and is selected from particulate cross-linked plastics or from thermoplastic elastomers which have rubbery properties, with a glass transition temperature  $T_g$  of  $\leq 0^\circ\text{C}$ , which is below the glass transition temperature of the second plastic.
  2. The process as claimed in claim 1, wherein the odorant used comprises an odorant oil.
  3. A process as claimed in claim 1 or 2, wherein the odorant used comprises pheromones and/or ecomones.
  4. A process as claimed in any of claims 1 to 3, wherein the first plastic is mixed and allowed to swell with the odorant in a closed container.
  5. A process as claimed in any of claims 1 to 4, wherein the first polymer material in the form of a powder is mixed with the odorant, allowed to swell, and then further processed with the second plastic in ground, powder or pellet form under high pressure and at about room temperature, and with heating to a temperature which is below the glass transition temperature of the second plastic, or with heating to a temperature which is above the glass transition temperature either of the first polymer material or of the second plastic.

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cont
- 5 6. A process as claimed in any of claims 1 to 5, wherein the first polymer material used comprises thermoplastics, thermoplastic elastomers, graft rubber, polymers based on renewable raw materials, or polymers or else polymer mixtures based on starch.
- 10 7. A process as claimed in claim 6, wherein the second plastic is selected from polylactic acid, polyurethanes, polyamides, polyesters, polyester-amides, and polybutylene terephthalates, or from polymers, copolymers, block copolymers, triblock copolymers, or graft copolymers of styrene, 15 butadiene, acrylonitrile, (meth)acrylate, or of acrylic esters, and also mixtures of these with polycarbonates.
- 20 8. An odorant polymer or an odorant plastic obtained by the process as claimed in any of claims 1 to 7.
9. An odorant polymer or odorant plastic as claimed in claim 8 in pellet form.
- 25 10. The use of the odorant polymer or plastic as claimed in claim 8 or 9 for defense against animals.
- 30 11. A molding composition which comprises an odorant polymer or odorant plastic as claimed in claim 8 or 9.
- 35 12. The use of the molding composition as claimed in claim 11 or of the odorant polymer or plastic as claimed in claim 8 or 9 for altering and/or improving the odor properties of articles.

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13. An article which comprises an odorant polymer or an odorant plastic as claimed in claim 8 or 9 and/or a molding composition as claimed in claim 11.

5 14. An article as claimed in claim 13 in the form of a plastic molding or a semifinished product.

15. The use of the article as claimed in claim 13 or 14 for improving room air quality.

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16. The use of the article as claimed in claim 13 or 14 for defense against animal pests.